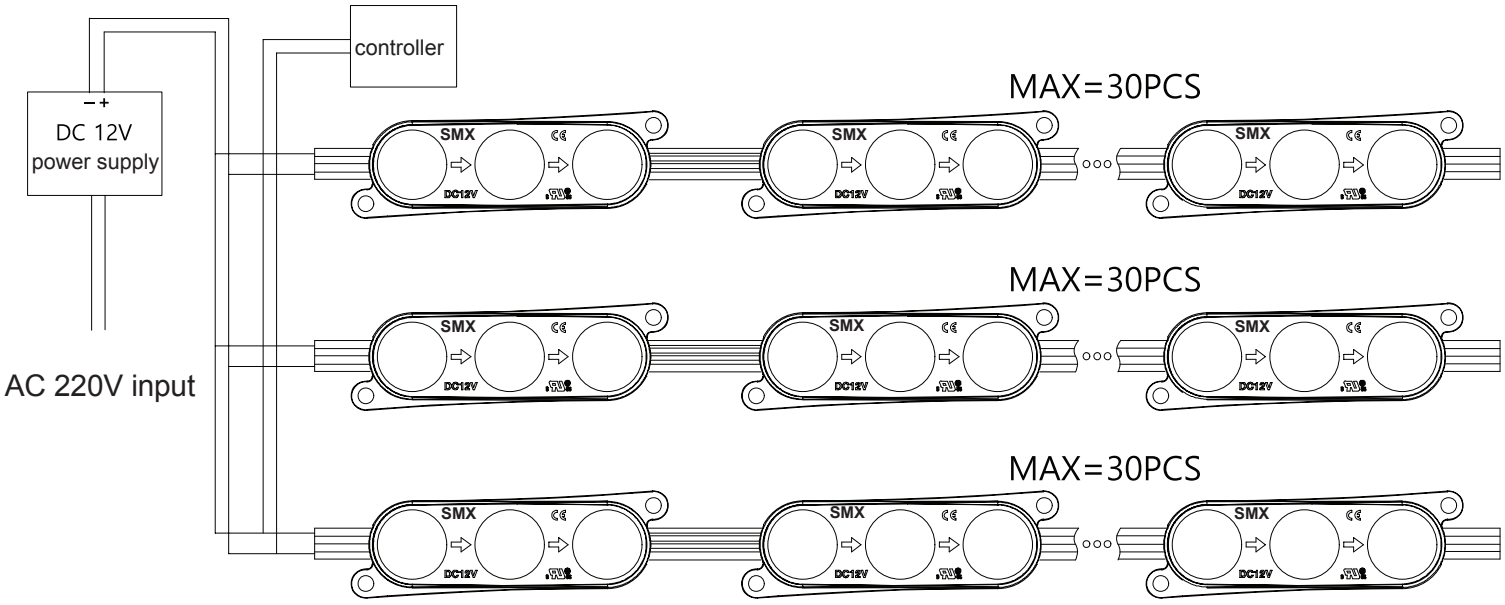
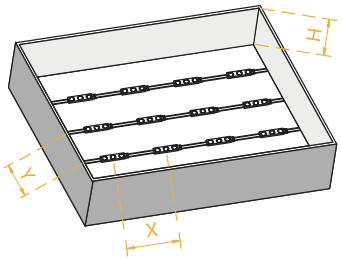
INSTALLATION

CONNECTION DIAGRAM



SIGNAGE MODULE INSTALLATION REFERENCE

Model No.	Surface Material	Depth(H)cm	Illumination(lux)	Evenness	Density (pcs/m²)	Spacing (X*Y)cm	Watt Density (W/m)	Visual Effects
SMX	White Soft Film	10	1287-1538	0.84	10*10	10*10	100	OK
		12	712-838	0.85	7*8	14*12	56	
		15	578-672	0.86	5*6	16*16	36	
		18	443-502	0.88	5*5	20*18	25	

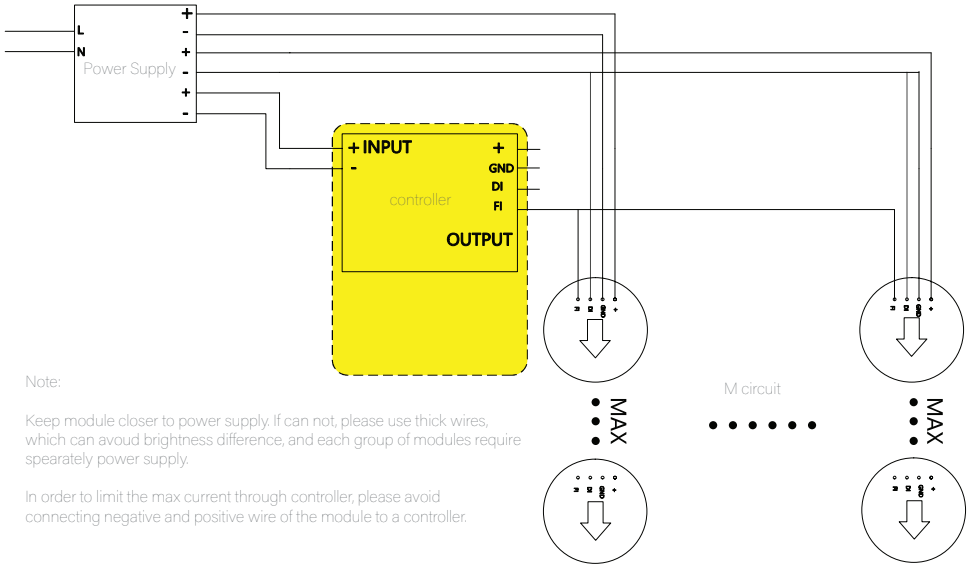


Note:

1. X indicates the horizontal center spacing between modules;
2. Y indicates the longitudinal center spacing between modules;
3. Single LED modules are arranged in a square, X= Y.
4. When the depth of light box H>18cm, use more products to satisfy Illumination demand
5. Please contact the sales for other data.
6. Customised wire length available.
7. The above data is for common demand , you can increase the density for actual demand.
8. The above data are obtained when four color of SMX are all bright

INSTALLATION

CONNECTION DIAGRAM OF CONTROLLER



Note:

Keep module closer to power supply. If can not, please use thick wires, which can avoud brightness difference, and each group of modules require spearately power supply.

In order to limit the max current through controller, please avoid connecting negative and positive wire of the module to a controller.

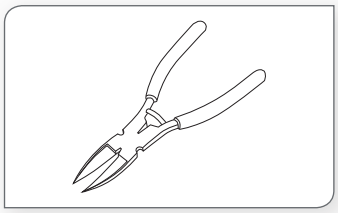
Power supply rated power (W): P Product
Module rated power (W): P(module)
Controller load:M(pcs)
Module max run: MAX=30

$$M=\frac{P\times 0.8}{P_{(module)}\times MAX}$$

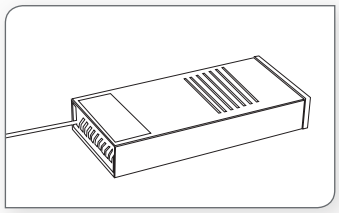
For example: the product is SMX of 0.80W, the max run MAX=30pcs, the power supply is 400W, so the controller load is

$$M=\frac{P\times 0.8}{P_{(module)}\times MAX}=\frac{400\times 0.8}{0.80X30}\doteq 13\,(pcs)$$

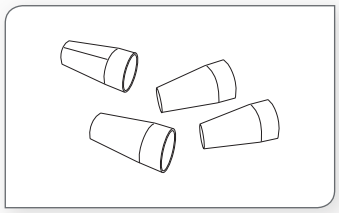
ACCESSORIES AND TOOLS



Diagonal Pliers

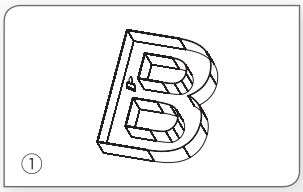


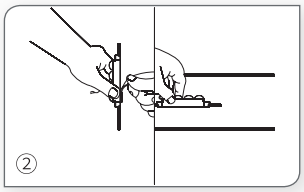
LED power supply

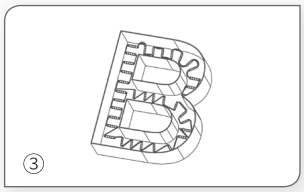


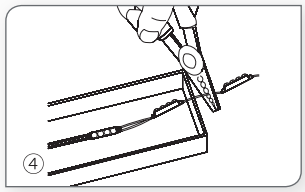
Connection Terminals

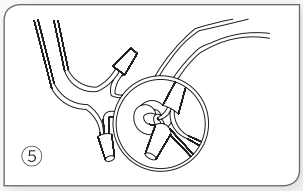
INSTALLATION STEPS

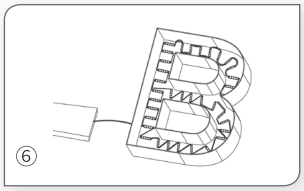












INSTALLATION STEPS

1. Clean the mounting surface,
2. Peel away the release paper on the back of LED modules and stick them onto mounting surface.
3. Evenly arrange the LED modules with appropriate space.
4. Cut the modules according to the requirements and treat the cut place with insulation and waterproof arrangement.
   Note: Cut in the middle of the wire.
5. If the product needs to be connected, it is better to fix with connection ends.
   Note: Treate the thread with insulation, waterproof, and anti-corrosion arrangement as it cannot pull out by hands.
6. Make sure the correct connection of positive and negative poles between LED module and power supply.
   Note: Treat the thread with insulation, waterproof, and anti-corrosion arrangement as it cannot pull out by hands.

ATTENTIONS BEFORE INSTALLATION

Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
Load voltage, current, power and power supply should be matched with the product.
Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
The terminal should have insulation, waterproof and anti-corrosive treatment.
If the working length exceeded the max run length, make sure to have extra power supply.
If it needs higher current of a LED, make sure having extra cooling.

COMMON FAULTS AND TROUBLESHOOT

Quick Guide		
Problems	Reasons	Solutions
All LEDs can not light on.	No electric supply.	Power on
	Automatic power protection from the open or short circuit in output of the power supply.	Fix the short circuit problem.
	Wrong connection of power supply.	
LEDs can not light on partly.	Some switching mode power supplies are not powered.	Check the power supply system to fix it.
	Power supply line error.	
	Mistaken wire connection of some of products	Correctly connection
Brightness of LED is inconsistent or insuficient	Power overloaded.	Replace with more powerful power
	Power supply circuit excessive consumption.	Make sure the working voltage of the product within ±5% of standard voltage, or keep balance by circuit power consumption.
	Excessive quantities in series connection of the product	Reduce the quantities of the product in series connection to meet requirement.
LED flicker.	Connection point fault.	Remove bad connection point.
	Switching power supply failure.	Replace a new power supply.
	Wrong Installation or use of products	Please follow the instructions

⚠ Warning

- Do not disassemble or retrofit the light. Do not touch the surface or the light with a sharp object
- Do not do live-line working during installation,especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 4 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation,waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm^2 cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on.
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters.Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance, and repair should be operated by a qualified technician.

STATEMENTS AND RECYCLING

Statements:

Repair should be operated by a qualified technician, if the external circuit or main line of this product is damaged.
The parameters given in this manual are typical values and for reference only.
All illustrations and drawings in this manual are for reference.

Recycling:

LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.